

initial
b) a plurality of pillar-type protrusions provided on at least one face other than the heat receiving face of said column in such a manner that they are parallel to or at a predetermined angle against the heat receiving face, wherein at least one continuous row of said pillar-type protrusions extend from said column at the same angle relative to said column, each of said pillar-type protrusions in said at least one continuous row extending from said column at the same vertical height.

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15. A cooling apparatus comprising:

a heatsink comprising:

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a) a column having a heat receiving face, wherein a cross section of said column has one shape selected from trapezoid, triangle, and a shape whose sectional width decreases as it extends away from said heat receiving face; and

b) a plurality of pillar-type protrusions provided on at least one face other than the heat receiving face of said column in such a manner that they are parallel to or at a predetermined angle against the heat receiving face, wherein at least one continuous row of said pillar-type protrusions extend from said column at the same angle relative to said column, each of said pillar-type protrusions in said at least one continuous row extending from said column at the same vertical height; and

a cooling means mounted on said heatsink.

SEE APPENDIX FOR CHANGE MADE TO CLAIMS

REMARKS

Applicants' representative initiated a telephone interview with the Examiner in order to help reduce issues concerning the grouping of claims. Applicants and Applicants' representative